



# EDUARDO GUTIERREZ MAESTRO

Ph.D. Candidate in Computer Science

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## Personal summary

Young socially committed, with any project that I undertake. Serious, responsible, with a tremendous desire to learn, create and innovate. I like to work in multidisciplinary teams, in which I provide the necessary strength to achieve objectives with good results.

Currently, I am working on my Ph.D. thesis. My research delves into the field of Affective Computing. My focus is to use AI methods to address the challenges found when monitoring affective states on a daily basis, for example, affective priming.

## Skills

**Machine Learning:** supervised and unsupervised models; feature engineering; wrapper, filter methods for feature selection. Mutual Information.

**Deep Learning:** Convolution Neural Networks (CNN), Recursive Neural Networks (RNN)

**Databases:** MySQL, MongoDB.

**Soft:** Communicative, workload management, decision-making, team work, self-instructive.

## Coding

**Python:** Numpy, Scipy, Pandas, Sklearn, TensorFlow, TensorBoard, PyTorch

**Misc:** Weka, Matlab, C++, Visual Basic, C, Java




## Education

- 2020 - now **Ph.D. Computer Science** Örebro University, Sweden  
Program: Wallenberg AI, Autonomous Systems and Software Program (WASP)
- 2017 - 2018 **Erasmus studies** Technische Universität Darmstadt, Germany  
Master program: Information and Communication Engineering (ICE).
- 2016- 2017 **M.Sc. Telecommunications Engineering** University of Alcala, Spain  
Specialization: Intelligent Transportation Systems.
- 2012- 2016 **B.Sc. Telecommunications Engineering** University of Alcala, Spain

## Work Experience

- Fall 2021/22 **Teaching Assistant** Örebro University, Sweden  
Responsible of the labs for the course: Datorkommunikation och nät (Network Communications).
- Fall 2019 **Data Scientist** Aeroengy, Spain  
I worked as external consultant for *El Corte Inglés* as a data scientist in the retail field. Skills employed: MySQL, Python, Databricks environment and Shell Script.
- 2018-2019 **Research Intern** GRAM, University of Alcala  
I worked on the project *Padrino Tecnológico*, which is a collaboration program with centers for kids with functional diversity and families. I worked on the development of a robotic assistive platform applying Deep Reinforcement Learning.
- Spring 2016 **Industrial Internship** Europcar, Spain  
I worked at the department of Information Systems developing functions as Java programmer and communications engineer.
- Fall 2016 **Computer Vision Research Intern** GRAM, University of Alcala  
I worked on a project in collaboration with the Provincial Traffic Headquarters of the State Traffic Office to estimate car pose using Deep Learning techniques.

## Research

- **Wearable-Based Intelligent Emotion Monitoring in Older Adults during Daily Life Activities**   
Implementation of a system to process physiological-based signals and model them into affective states. (first Ph.D. contribution)
- **Collision anticipation via deep reinforcement learning for visual navigation**   
Implementation of the A3C Reinforcement Learning algorithm to optimize the navigation of a robotic platform minimising the number of collisions within the AI2THOR virtual environment.
- **More publications on:**  edugm.github.io

## Other

- **Languages:** Spanish (native), English (fluent), German (intermediate), Swedish (basic).
- **Volunteering:** Summer camp responsible at Apicula's Scout Group.